

# ACCUTROL RETURN DUCT TEMPERATURE & RELATIVE HUMIDITY SENSOR SUBMITTAL

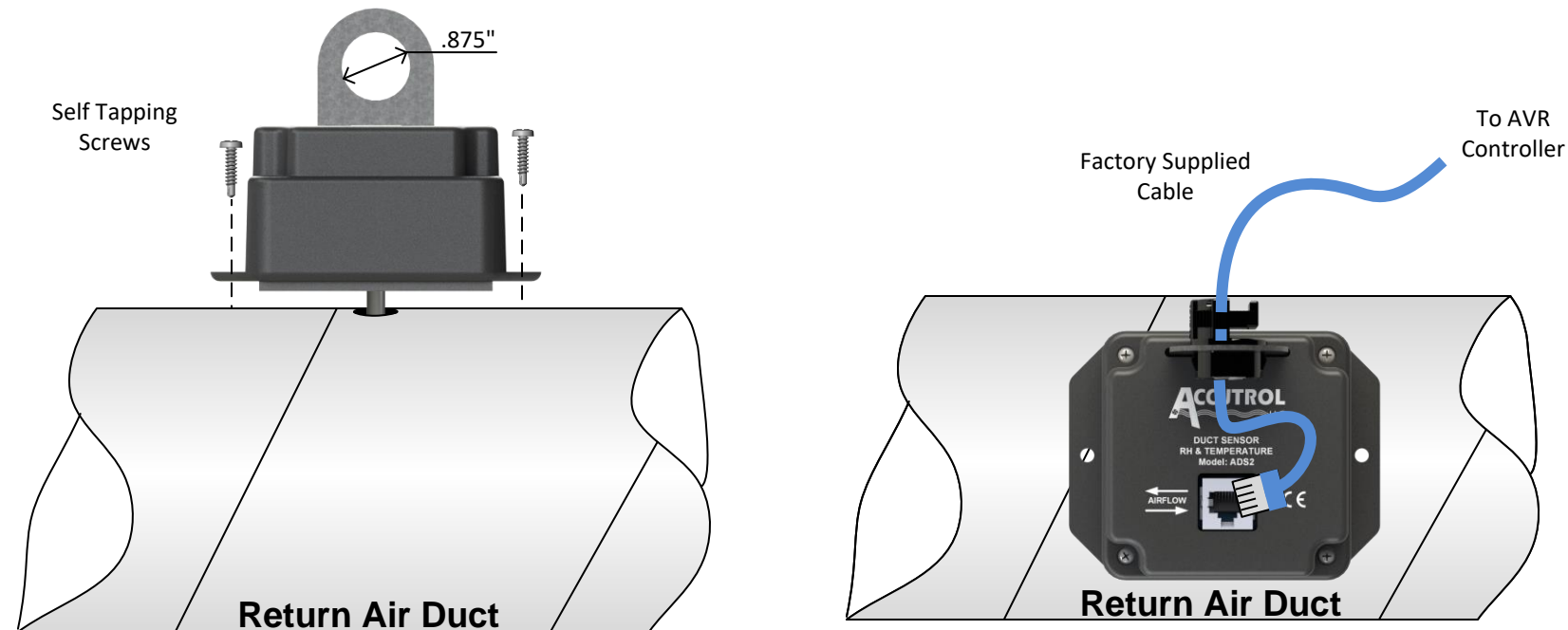
The ADS2 is a duct-mounted air temperature and relative humidity (RH) sensor that is designed to be used exclusively with the AVR AccuValve® airflow and temperature control system. The ADS2 provides precise measurement of the air temperature and RH flowing through the return/exhaust duct of the room being controlled by the AVR AccuValve. The ADS is provided with 2 mounting screws for duct-mounting and a prefabricated factory-cable for connecting directly to the AVR Control Valve.

<b>Sensor Type</b>	<b>ADS</b>	<b>Cable Length</b>
2 – Temperature, Humidity		1 - 25' Cable
		2 - 50' Cable
		3 - 75' Cable
		4 - 100' Cable

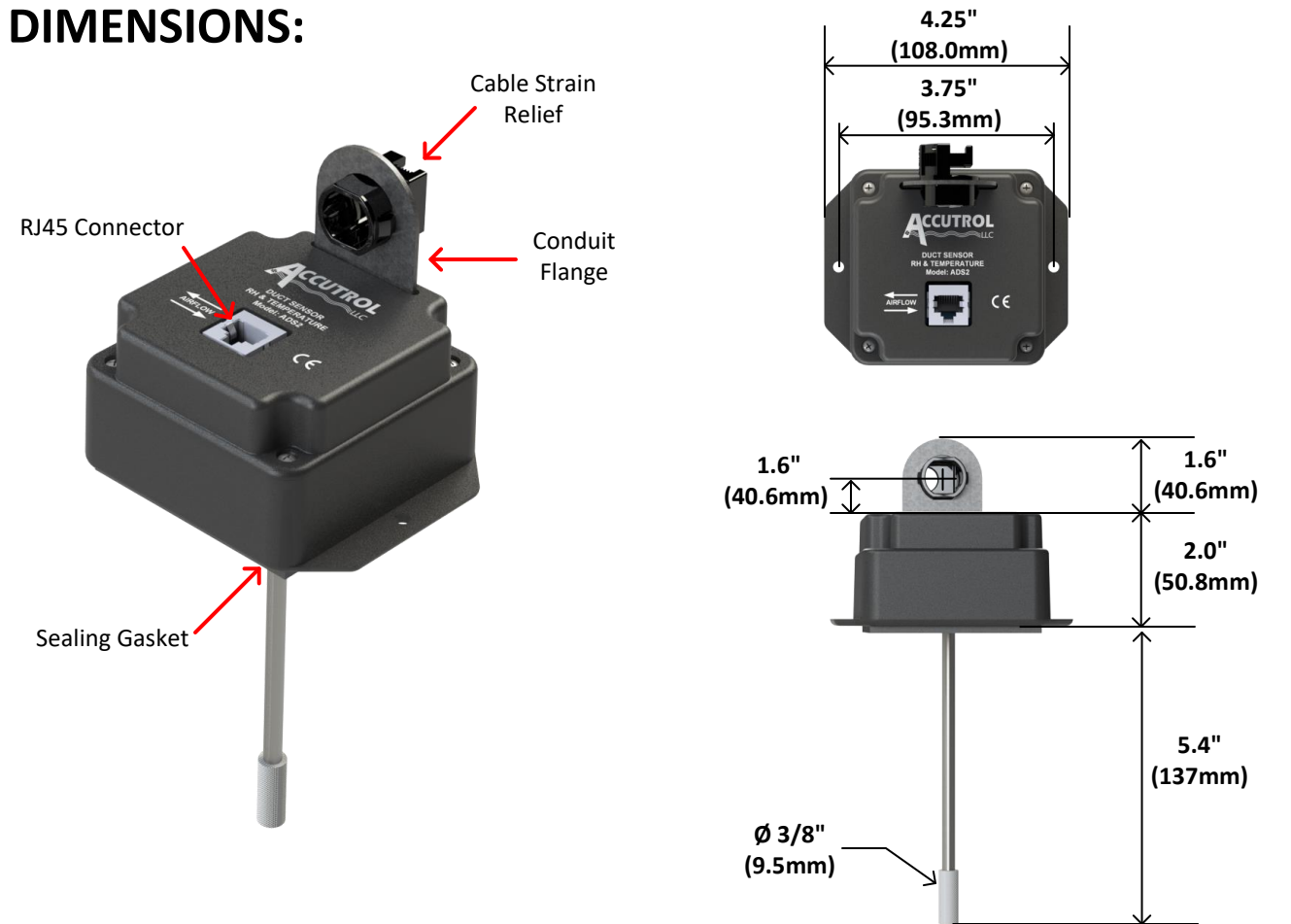
**NOTE:** If a longer cable is required, please contact factory.

## INSTALLATION

1. Drill a 3/8" (15mm) diameter hole in the duct where probe is to be inserted.
2. Insert the probe into hole and align the ADS2 so the mounting flange makes contact with the duct surface. Ensure the airflow arrows on the cover are correctly in line with the airflow.
3. Secure ADS2 to the duct using the (2) self-tapping screws provided.
4. Route the factory cable through the strain relief provided. Attach factory cable to port shown below.
5. Flange can be used to land conduit.



## DIMENSIONS:



## SPECIFICATIONS

### Electrical:

Factory cable connected to the AVR provides all power and signal connections.  
Factory cable is shielded plenum-rated terminated with shielded RJ-45 connectors.

### Temperature Measurement:

Range: 32°F to +132°F (0°C to 56°C)  
Resolution: 0.02°F (0.01°C)  
Accuracy: ± 0.25°F (± 0.14°C)

### Relative Humidity Measurement:

Range: 0 to 100% RH  
Resolution: 0.02% RH  
Accuracy: ± 2% Typical, ± 2.5% Max

### Environmental:

Operating Temperature: 32°F to 132°F (0°C to 56°C)  
Storage Temperature: -40°F to +165°F (-40°C to 74°C)  
Humidity: 0% to 90% non-condensing

### Physical Construction:

Flame Rating = UL94-5VA

### Mounting:

Installs directly onto duct surface using (2) factory provided screws.